

HF-Regulator II for TL5 lamps

HF-R 224 TL5/PL-L EII 220-240V 50/60Hz

High-frequency electronic dimming ballast, using the analog protocol (1-10 V) for TL5 HE/HO and TL5 Eco lamps

Product data

• General Information

Application Code	EII
Type Version	mk2
Lamp Type	TL5/PL-L
Number Of Lamps	2 piece/unit
Number Of Products On MCB (16A Type B) (Nom)	28
Automatic Restart	Yes

• Operating and Electrical

Input Voltage	220 to 240 V
Input Frequency	50 to 60 Hz
Operating Frequency (Max)	95 kHz
Operating Frequency (Min)	45 kHz
Ignition Method	Warm Start
Crestfactor (Max)	1.7
Power Factor 100% Load (Nom)	0.99
Ignition Time (Max)	0.2 s
Mains Voltage Performance (AC)	-8%-+6%
Mains Voltage Safety (AC)	-10%-+10%
Earth Leakage Current (Max)	0.5 mA
Inrush Current Width	0.25 ms
Power Losses (Nom)	7.3 W
Inrush Current Peak (Max)	27 A

• Wiring

Connector Type Input Terminals	WAGO 251 universal connector [Suitable for both automatic wiring (ALF and ADS) and manual wiring]
Connector Type Output Terminals	WAGO 251 universal connector [Suitable for both automatic wiring (ALF and ADS) and manual wiring]
Connector Type Control Input Terminals	WAGO 251 universal connector [Suitable for both automatic wiring (ALF and ADS) and manual wiring]
Wire Striplength	8.0-9.0 mm
Dual Fixture Master/ Slave	- [not specified]
Control Input Terminal Cross Section	0.50-1.00 mm²
Input Terminal Cross Section	0.50-1.00 mm²
Output Terminal Cross Section	0.50-1.00 mm²
Auto Insert (ALF/ ADS) Wire Cross Section	0.5 mm²

• System characteristics

Rated Ballast-Lamp Power	24 W

• Temperature

T-Ambient (Max)	50 °C
T-Ambient (Min)	-20 °C
T-Storage (Max)	80 °C
T-Storage (Min)	-25 °C
Stable Lamp Operation Temperature	Not specified

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T-Ignition (Max)	50 °C
T-Ignition (Min)	0 °C

- Controls and Dimming

Control Interface	1-10V
Regulating Level	1%-100%
Power	
Control Input Protection	Yes (Basic insulation)

- Mechanical and Housing

Housing	L 359x30x22

- Emergency Operation

Battery Voltage Lamp Ignition	196 V
Battery Voltage Lamp Operation	154-276

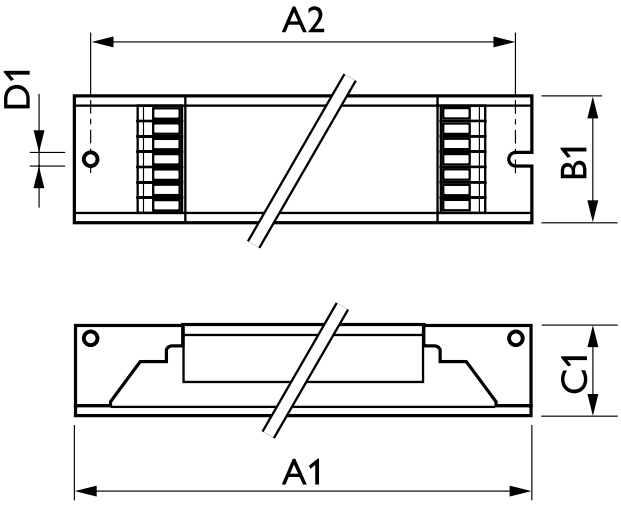
- Approval and Application

Energy Efficiency Index	A1
EMI 9 kHz ... 30 MHz	EN55015
EMI 30 MHz ... 1000 MHz	Level = Class
Safety Standard	IEC 61347-2-3
Performance Standard	IEC 60929
Quality Standard	ISO 9000:2000
Environmental Standard	ISO 14001
Harmonic Current Emission Standard	IEC 61000-3-2
EMC Immunity Standard	IEC 61547
Vibration Standard	IEC 68-2-6 Fc
Bumps Standard	IEC 68-2-29 Eb
Humidity Standard	EN 61347-2-3 clause 11
Approval Marks	CE marking ENEC certificate VDE-EMV certificate
Temperature Marking	Yes
Emergency Standard	IEC 60598-2-22
Hum And Noise Level	Inaudible

- Product Data

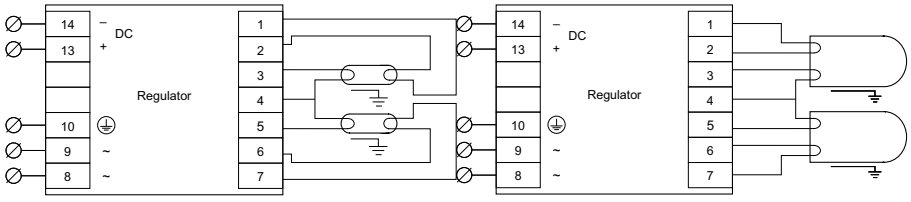
Full product code	871150091472930
Order product name	HF-R 224 TL5/PL-L EII 220-240V 50/60Hz
EAN/UPC - Product	8711500914729
Order code	913700633166
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	12
Material Nr. (12NC)	913700633166
Net Weight (Piece)	0.325 kg

Dimensional drawing



HF-R 224 TL5/PL-L EII 220-240V 50/60Hz

Product	D1	C1	A1	A2	B1
HF-R 224 TL5/PL-L EII 220-240V 50/60Hz	4.2 mm	22 mm	359 mm	350 mm	30 mm



HF-R 2 lamps TL5/PL-L/TL-D

HF-R 2 lamps PL-L

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